Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL	ENGINE FAN	IILY	ENGINE SIZES (L)	FUEL TYPE <sup>1</sup>	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6
2008	8DDXH07,2	DIC.	7.2	Diesel	PROCEDURE	CLASS T	DDI, TC(2), CAC, ECM, EGR, OC, PTOX	EMD
PRIMARY	'ENGINE'S IDLE NS CONTROL		7.2		TIONAL IDLE EN	IISSIONS COI	5	I
	ESS	N/A ENGINE MODELS / CODES (rated power, in hp)						
ENGINE (	나)			ENGINE MODE	LS / CODES (ra	ted power, in	hp)	
7.2				See attachmen	t for engine m	odels and ra	atings	
CNG/Lit CNG/Lit CNG/Lit L/M/H F ECS=er up catalyst; TBI=throttle super charg control mod	=norsepower; kw=k NG=compressed/liqu IDD=light/imedium/hi mission control syste; DPF=diesel particus body fuel injection; ger; CAC=charge ai dule; EM=engine mo	efied natured to the service of the	=nour; ral gas; LPG=liquefi y-duty diesel; UB=u DC=three-way/oxidiz PTOX=periodic trap sequential/multi port GR / EGR-C=exhau 2 (prefix)=parallel;	ed petroleum gas; E85=85% eth rban bus; HDO=heavy duty Otto; ing catalyst; NAC=NOx adsorptioxidizer; HO2S/O2S=heated/ox fuel injection; DGI=direct gasolir st gas recirculation / cooled EGR (2) (suffix)=in series;	anol fuel; MF=mult on catalyst; SCR-L ygen sensor; HAF: te injection; GCAR; PAIR/AIR=pulsec	i fuel a.k.a. BF  // SCR-N=seled  S/AFS=heated/a  B=gaseous car  d/secondary air	R 86.abc=Title 40, Code of Federat Regulation:  =bi fuel; DF=dual fuel; FF=flexible fuel;  citive catalytic reduction – urea / ammonia; Wair-fuel-ratio sensor (a.k.a., universal or linear oburetor; IDI/DDI=indirect/direct diesel injection injection; SPL=smoke puff limiter; ECM/PCM=	/U (preflx) =warm- xygen sensor); ; TC/SC=turbo/ -engine/powerfrain
(per 13 CC	R 1956.8(a)(6)(D); E	xempt=e	kempted per 13 CCF	\)(1);	fuel systems; N/A	=not applicable	al combustion auxiliary power system; ALT=al' (e.g., Otto engines and vehicles);	ernative method

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in	NN	IHC	N	Ox	NMH	C+NOx	C	00	F	M	He	СНО
g/bhp-hr	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	*	•	*	*	15.5	15.5	0.01	0.01	*	*
FEL	*	*	1.24	1.24	1.2	1.2	*	*	*	*	*	*
CERT	0.01	0.00	1.10	0.82	1.1	0.8	0.1	0.02	0.002	0.004	*	*
NTE	0.	21	1.	.86	1	8	19	9.4	0.	02		*

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO≃carbon monoxide; PM=particulate matter; HCHO=formaldehyde;

**BE IT FURTHER RESOLVED:** Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

**BE IT FURTHER RESOLVED:** The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [Otto engines] and the incorporated 40 CFR 86.007-15(m)(9).

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

This Executive Order hereby supersedes Executive Order A-290-0125 dated December 21, 2007.

Executed at El Monte, California on this \_\_\_\_\_ day of April 2008.

Annette Hebert, Chief

Mobile Source Operations Division

## **Engine Model Summary Template**

Engine Family	Engine Family 1.Engine Code 2.Engine Model	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: 5.Fuel Rate: mw/struke @ peak HP (trs/hr.) @ peak HP (for diesels only) (for diesels only)	5.Fuel Rate; (be/hr) @ peak HP (for desels only)	6.Tarque @ RPM (SEA Gross)	7.Fuel Rafe: mm/stroke@peak torque	8.Fuel Rate: (&s/hr)@peak torque	8.Fuel Rate: 8.Emission Control Boshr)@peak torque Device Per SAE J1930
8DDXH7.20DJC	_	OM926LA	350 @ 2200	178,4	132.1	860 @ 1400	169.7	80.0	ECM, TC, CAC
ворхн7.20рлс	=	OM926LA	300 @ 2200	154.0	113.7	860 @ 1400	169.7	80.0	EGR, DOC,
BDDXH7.20DJC	=	OM926LA	280 @ 2200	143.7	106.1	800 @ 1400	155.3	73.0	DPF
8DDXH7.20DJC	١٨	OM926LA	260 @ 2200	133.4	98.5	800 @ 1400	155.3	73.0	(all ratings)
8DDXH7.20DJC	^	OM926LA	250 @ 2200	127.0	90.7	660 @ 1400	137.0	64.0	
8DDXH7,20DJC	IX	OM926LA	230 @ 2200	115.0	94.0	660 @ 1400	137.0	64.0	
8DDXH7.20DJC	VII	OM926LA	230 @ 2200	115.0	84.0	620 @ 1400	129.0	58.0	
8DDXH7.20DJC	N N	OM926LA	210 @ 2200	108.0	75.5	620 @ 1400	129.0	58.0	
8DDXH7.20DJC	×	OM926LA	210 @ 2200	108.0	75.5	520 @ 1400	108.0	49.0	er browning on yang company company of the second of the s
BDDXH7.20DJC	×	OM926LA	190 @ 2200	97.0	70.0	520 @ 1400	108.0	49.0	